

REMARKS

Claims 1 to 13 are pending in the application. Claim 1-6 and 11-13 have been amended. Applicant submits that no new matter has been added to the application.

Claim Objections

The Examiner objected to claim 5 for lack of clarity. Applicant has amended claim 5 to further clarify the scope of claim 5. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the objection to claim 5.

Claim Rejection – 35 U.S.C. §101

The Examiner rejected claim 13 under 35 U.S.C. §101 because claim 13 is directed to unpatentable subject matter. Claim 13 has been amended to recite statutory subject matter. Support for the amendment is found at Fig. 7 and page 40 of the application. In view of the amendment to claim 13, Applicant respectfully requests reconsideration and withdrawal of the §101 rejection of claim 13.

The Present Invention

The present invention is a peripheral device which receives its power from a main device and carries out commands received from a main device for the purpose of controlling the power consumed by the peripheral device. In one embodiment, upon the peripheral device being connected to the main device, the main device inquires the peripheral device about features of the device (peripheral device information) and upon receiving the peripheral device information, demands from the peripheral device a power profile information list stored in the peripheral device. The peripheral device transmits the list to the main device and upon receiving the power profile information list, the main device determines specifications appropriate to the peripheral device information, the main device selects an appropriate power profile from the list, supplies the necessary power and communicates the selected power profile back to the peripheral device, which then controls the power consumption based on the selected power profile.

In another embodiment, upon the peripheral device being connected to the main device, the main device inquires the peripheral device about features of the device (peripheral device information) and upon receiving the peripheral device information, the main device determines specifications appropriate to the peripheral device information and transmits the specifications to

the peripheral device. Upon receiving the specifications, the peripheral device selects an appropriate power profile from a list of power profiles, notifies the main device to provide the necessary power and then controls the power consumption based on the selected power profile.

Jinnouchi

Jinnouchi is directed to a PC card having an internal rechargeable battery which is insertable into an electronic device. The PC card can operate in either a reduced power mode (first function) or in a charging mode (second function) depending on a user input to the PC card and on the value of the operating power supply from the electronic device being either 5.0 volts or 3.3 volts.

Referring to Fig. 1 and col. 5, line 43 to col. 7, line 18, prior to insertion of the PC card into the electronic device: (1) the user sets which of the power supply voltages (5.0 or 3.3 volts) the PC card is to operate from (S1, S2) and (2) the PC card configures itself to receive either 5.0 or 3.3 volts by; (1) setting pins VS1/VS2 on the PC card connector 21 to either a high (H) state or a low (L) state and (2) by preparing to send information to the electronic device (S2 and S7). Upon the PC card being inserted into electronic device, the PC card automatically sends complex instruction set (CIS) information indicating the desired operating voltage to the electronic device based on notification from the main control part 27 of the PC card (see col. 3, lines 61-63), without receiving any command from the electronic device to send the information. (See col. 3, line 58- col. 4, line 6). The electronic device then sets the operating supply voltage to either 5.0 or 3.3 volts (S3 and S8) based on the CIS information. The PC card then detects the value of the operating voltage being supplied (S4 and S9) and, based on the user input and the detected operating voltage, **sets itself** to operate in either charging mode, reduced power mode or shuts off (S5, S6, S10 and S11).

Rejections- 35 U.S.C. 102

The Examiner rejected claims 1-4, 6, 7 and 9-13 over U.S. Patent No. 6,697,883 (Jinnouchi). Applicant respectfully traverses the rejection.

Claims 1, 2, 6, 7, 9, 10, 12 and 13.

Claims 1 and 2 each recite, *inter alia*, "A peripheral device ...having an interface section wherein the interface section corresponds to a demand from said main device and sends said

power profile information list to said main device." Amended claim 6 recites, *inter alia*, "Main device which demands a power profile information list from said peripheral device". Claims 9 and 10 each recite, *inter alia*, "Control method of peripheral device comprising: ... a sending step of corresponding to a demand from main device and sending a power profile information list which includes single or plural power profile information to said main device". Amended claim 12 recites, *inter alia*, "Control method of main device which demands a power profile information list from said peripheral device...".

Each of claims 1, 2, 6, 9, 10 and 12 recite that the peripheral device sends a power profile information list to the main device based on receiving a demand from the main device.

Applicant submits that Jinnouchi does not teach, suggest or disclose receiving by the peripheral device a demand sent from a main device which results in the peripheral device sending a power profile list to the main device in correspondence to the demand as recited in claims 1, 2, 6, 9, 10 and 12. As described at col. 5, lines 58-63, Jinnouchi's PC card initiates the process of transferring CIS information from the PC card to the PC by the simple act of the PC card detecting the insertion the PC card into the PC and not by issuing a "demand" from the PC.

Further, the PC card does not respond by sending a power profile list

In respect to the interpretation of the term "demand", the pending claims must be given their broadest reasonable interpretation in light of the specification, as it would be interpreted by one of ordinary skill in the art. See MPEP Section 2111. Here, the specification shows at Fig. 1 an interface between the main device and the peripheral device which is labeled "commands relevant to power supply and the like". Also, at Figs. 2 and 5, the main device is shown as inquiring about (demanding from) the peripheral device information from the peripheral device. One of ordinary skill in the art, in light of the specification would have to conclude that the claimed term "demand" was a command originated by the main device and not the mere determination that a connection was made between two connectors, as taught by Jinnouchi.

Further, Jinnouchi does not teach, suggest or disclose sending a power profile list from the peripheral device to the main device from which a profile can be selected. Jinnouchi merely sends in the CIS, a single indication of the desired power supply voltage for the PC card, i.e. either 5.0 or 3.3 volts. This is not a list of power profile information from which the main device could select one from a plurality of items on the list.

Applicant submits that Jinnouchi does not anticipate any of claims 1, 2, 6, 9, 10 and 12. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the §102 rejection of claims 1, 2, 6, 9, 10 and 12.

Further, it is respectfully submitted that since claims 6 and 12 have been shown to be allowable, claims 7 and 13 dependent on claims 6 and 12 respectively are allowable, at least by their dependency. Accordingly, for all the above reasons, Applicants respectfully request reconsideration and withdrawal of the § 102 rejection of claims 7 and 13.

Claims 3, 4 and 11

Amended claim 3 recites, *inter alia*, "...an interface section which receives specifications which said main device designates; [and] a power profile judgment section which determines from the specifications appropriate power profile information from the power profile information list stored in the power profile information memory...". Amended claim 11 recites, *inter alia*, a receiving step of receiving specifications which a main device designates; [and] a power profile judging step of determining power profile information that is appropriate to the specifications designated by said main device ...". The amendments to claims 3 and 11 are supported at pages 40-41 of the application.

Both claims 3 and 11 recite that the interface section of the peripheral device receives specifications that determine the power consumption of the peripheral.

Jinnouchi operates completely differently from the claimed invention. In the first instance, the computer 1 does not provide "specifications" to the PC card for determining the power consumption of the PC card. As described at col. 5, line 57 to col. 6, line 22 of Jinnouchi, the required operation of the PC card is determined by a combination of a user input to the PC card prior to the card being inserted (See col. 5, lines 43-48 and S1 on Fig. 1) and the voltage delivered to the PC card by the computer (Fig. 1). Secondly, the computer merely provides the requested voltage of 5V or 3.3V to the PC card and does not provide any signal to the PC card that could be interpreted as "specifications" as they would be understood in the context of pages 40-41 of the specification.

Applicant submits that Jinnouchi does not anticipate claims 3 and 11. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the §102 rejection of claims 3 and 11.

Further, it is respectfully submitted that since claim 3 has been shown to be allowable, claim 4 dependent on claim 3 is allowable, at least by its dependency. Accordingly, for all the above reasons, Applicants respectfully request reconsideration and withdrawal of the § 102 rejection of claim 4.

Rejections- 35 U.S.C. 103

The Examiner rejected claims 5 and 8 over U.S. Patent No. 6,697,883 (Jinnouchi) in view of U.S. Patent No. 6,085,982 (Nakashima). Applicant respectfully traverses the rejection.

Claim 5 depends from allowable claim 1. Claim 8 depends from allowable claim 6. Nakashima does not teach or suggest a peripheral device that sends a power profile information list to the main device based on receiving a demand from the main device, as recited in claims 1 and 6 and not disclosed by Jinnouchi. Consequently, claims 5 and 8, dependent on claims 1 and 6 respectively, are allowable at least by their dependency. Accordingly, Applicants respectfully request reconsideration and withdrawal of the §103 rejection of claims 5 and 8.

Conclusion

Insofar as the Examiner's objections and rejections have been fully addressed, the instant application, including claims 1-13, is in condition for allowance and Notice of Allowability of claims 1-13 is therefore earnestly solicited

Respectfully submitted,

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